

R05-8303-01B  
IL-176-15



SCA CHEMICAL SERVICES, INC.

11700 S. Stony Island Avenue  
Chicago, Illinois 60617  
(312) 646-5700

US EPA RECORDS CENTER REGION 5



462604

October 5, 1982

03160058

Change / SCA Haney

ILD 090622121

Mr. Mark Haney  
Division of Land Pollution Control  
Compliance Monitoring Section  
2200 Churchill Road  
Springfield, Illinois 62706

Dear Mr. Haney:

SCA Chemical Services has completed second quarter sampling and analyses to establish initial background concentration for parameters pursuant to Illinois Pollution Control Board Regulations, Title 35, Sections 725.190 through 725.194.

The enclosed report summarizes the analytical results of groundwater samples for parameters that characterize the suitability of the groundwater as a drinking water supply, as specified in Appendix III-EPA Interim Primary Drinking Water Standards (40CFR265; Appendix III; Revised July 1, 1981).

Sincerely,

A handwritten signature in cursive ink, appearing to read "Alicia D. Whatley".

Alicia Whatley, Ph.D.  
Safety and Regulatory Affairs

Attachment AW/vmd

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OCT 12 1982

ILL. E.P.A. - D.L.P.C.  
STATE OF ILLINOIS

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E.P.A. - D.L.P.C.  
STATE OF ILLINOIS



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OCT -7 1982

E.P.A. - D.I.P.C.  
STATE OF ILLINOIS

## GROUNDWATER MONITORING REPORT

Sampling date: September 8, 1982  
Analysis Report date: September 27, 1982

(CONTINUED)

### Analytical Results for EPA Interim Primary Drinking Water Parameters

<u>Parameter</u>	Monitoring Wells			
	<u>G-112B</u>	<u>G-110</u>	<u>G-111A</u>	<u>G-113A</u>
Gross Beta	190 ± 10 pCi/l	69 ± 9 pCi/l	260 ± 20 pCi/l	100 ± 10 pCi/l
Coliform Bacteria	0 colonies/ml	0 colonies/ml	0 colonies/ml	0 colonies/ml

\* Compound was less than GC/ECD Method Detection Limit calculated for each sample matrix.

BMDL Below EPA Method Detection Limit.

ND Not Detected

\*\* These data will be filed in an amended report. Results were not available at this reporting.



OCT 7 1982

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STATE OF ILLINOIS

## GROUNDWATER MONITORING REPORT

Concentrations that exceed maximum contaminant levels of EPA Primary Drinking Water Parameters for each Monitoring Well:

### Groundwater Monitoring Well G-112B

<u>Parameter</u>	<u>Concentration</u>
Arsenic	0.130 mg/l
Cadmium	0.014
Chromium	0.140
Lead	3.100
Mercury	0.010
Gross Alpha	14 ± 6 pCi/l

### Groundwater Monitoring Well G-110

<u>Parameter</u>	<u>Concentration</u>
Cadmium	0.013 mg/l
Fluoride	1.9
Gross Alpha	20 ± 10 pCi/l

### Groundwater Monitoring Well G-111A

<u>Parameter</u>	<u>Concentration</u>
Barium	1.900 mg/l
Chromium	0.060
Lead	0.500
Mercury	0.003



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## GROUNDWATER MONITORING REPORT

### Groundwater Monitoring Well G-113A

<u>Parameter</u>	<u>Concentration</u>
Arsenic	0.270 mg/l
Chromium	0.050
Lead	1.1
Mercury	0.008

Note: Groundwater detection limits for lindane, endrin and toxaphene could not be achieved for samples from wells G-112B, G-111A, and G-113A due to a matrix interference present in the sample extract. These data are therefore reported at less than detection limits which are greater than the EPA maximum levels established for these parameters.



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## GROUNDWATER MONITORING REPORT

Sampling date: September 8, 1982  
Analysis Report date: September 27, 1982

### Analytical Results for EPA Interim Primary Drinking Water Parameters

Parameter	Monitoring Wells			
	G-112B	G-110	G-111A	G-113A
Arsenic	0.130 mg/l	0.040 mg/l	0.045 mg/l	0.270 mg/l
Barium	BMDL	ND	1.900	BMDL
Cadmium	0.014	0.013	0.006	0.007
Chromium	0.140	0.035	0.060	0.050
Fluoride	0.48	1.9	0.43	0.40
Lead	3.100	0.030	0.500	1.1
Mercury	0.010	0.0002	0.003	0.008
Nitrate (as N)	<0.01	<0.01	<0.01	<0.01
Selenium	BMDL	ND	ND	ND
Silver	ND	BMDL	ND	BMDL
Endrin	<0.002*	<0.0001	<0.002*	<0.002*
Lindane	<0.040*	<0.002*	<0.040*	<0.040*
Methoxychlor	<0.050*	<0.050*	<0.050*	<0.050*
Toxphene	<0.050*	<0.0025*	<0.050*	<0.050*
2,4-D	<0.050*	<0.050*	<0.050*	<0.050*
2,4,5-TP Silvex	<0.005*	<0.005*	<0.005*	<0.005*
Radium	**	**	**	**
Gross Alpha	14 + 6 pCi/l	20 + 10 pCi/l	<10 pCi/l	9.7 + 4.3 pCi/l